

February 15, 2018

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency
DWPC Marion Region
2309 West Main Street
Marion, Illinois 62959

**Discharge Monitoring Report for January 2018
(Permit No. 2015-EP-59681-1)
Pump and Treat System
Crab Orchard National Wildlife Refuge, Marion, Illinois**

Dear Sir or Madam:

AECOM, on behalf of the United States Fish and Wildlife Service (USFWS), is submitting the attached January 2018 Discharge Monitoring Report (DMR) for the subject treatment system located on the Crab Orchard National Wildlife Refuge (CONWR) in Marion, Illinois. This DMR has been prepared as required by the Permit to Construct, Own, and Operate (Permit No. 2015-EP-59681-1), dated April 28, 2017, for discharge to the City of Marion, IL publicly owned treatment works (POTW). Discharge of the treated effluent of the Pump and Treat System to the Marion POTW commenced on May 4, 2011. For the month of January 2018, the system operated the full month. The enclosed discharge summary was used to prepare the DMR.

Please contact Mr. Andy Day (314.743.4217) with any questions.

Sincerely,



Andy Day
Environmental Scientist
AECOM

encl: DMR
Discharge Summary

cc: *(via electronic mail)*
Viral Patel, USFWS
Paul Lake, IEPA
Mike Coffey, USFWS Project Coordinator
Chuck Beasley, USFWS
Brent Cain, City of Marion POTW

NAME USFWS
 ADDRESS Crab Orchard National Wildlife
 Refuge
 8588 Route 148
 Marion, IL 62599

DISCHARGE MONITORING REPORT (DMR)


2015-EP-59681-1	to POTW
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY Crab Orchard National Wildlife
 LOCATION Refuge Superfund Site

MONITORING PERIOD							
YEAR		MO	DAY	TO	YEAR		MO DAY
2018		01	01		2018		01 31

NOTE: Read instructions before

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow, Total Daily Volume	SAMPLE	4,072	4,191	gpd					0	Daily	Cont
	PERMIT REQUIREMENT	7,200	14,400							Daily	Cont
Flow, Daily Average Rate	SAMPLE	2.8	2.9	gpm					0	Daily	Cont
	PERMIT REQUIREMENT	Report	Report							Daily	Cont
pH, Standard Units	SAMPLE				7.09		7.09	s.u.	0	1/mo	Grab
	PERMIT REQUIREMENT				5.5		9.5			1/mo	Grab
Polychlorinated Biphenyls, total	SAMPLE				<0.00040	<0.00040	<0.00040	mg/L	0	1/mo	Grab
	PERMIT REQUIREMENT						0.003			1/mo	Grab
	SAMPLE										
	PERMIT REQUIREMENT										
	SAMPLE										
	PERMIT REQUIREMENT										
	SAMPLE										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
			314	743.4217	2018	02	15
			AREA	NUMBER	YEAR	MO	DAY

Andrew T. Day

TYPED OR PRINTED

 SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Operated under the supervision of Andrew Day and Brooks Pfeiffer, Class K Operators - Crab Orchard Pump and Treat System

Crab Orchard National Wildlife Refuge
Permanent Pump and Treat System
Discharge Summary - January 2018
AECOM Project Number: 60555096

January 2018	Flow (gpm)	Totalizer (gal)	Total Flow (gpd)	Effluent		Comments
				Total PCBs (mg/L)	pH (s.u.)	
01/01/18	2.68	10,665,702	3,837			
01/02/18	2.69	10,669,539	3,836			
01/03/18	2.70	10,673,375	3,920	< 0.00040	7.09	
01/04/18	2.90	10,677,295	4,190			
01/05/18	2.90	10,681,485	4,191			
01/06/18	2.90	10,685,676	4,189			
01/07/18	2.90	10,689,865	4,176			
01/08/18	2.90	10,694,041	4,169			
01/09/18	2.90	10,698,210	4,144			
01/10/18	2.87	10,702,354	4,114			
01/11/18	2.82	10,706,468	4,085			
01/12/18	2.83	10,710,553	4,093			
01/13/18	2.81	10,714,646	4,078			
01/14/18	2.80	10,718,724	4,071			
01/15/18	2.80	10,722,795	4,059			
01/16/18	2.80	10,726,854	4,048			
01/17/18	2.80	10,730,902	4,038			
01/18/18	2.80	10,734,940	4,020			
01/19/18	2.80	10,738,960	3,995			
01/20/18	2.80	10,742,955	3,989			
01/21/18	2.79	10,746,944	3,982			
01/22/18	2.80	10,750,926	3,995			
01/23/18	2.84	10,754,921	4,061			
01/24/18	2.87	10,758,982	4,118			
01/25/18	2.87	10,763,100	4,115			
01/26/18	2.87	10,767,215	4,112			
01/27/18	2.87	10,771,327	4,115			
01/28/18	2.89	10,775,442	4,127			
01/29/18	2.88	10,779,569	4,120			
01/30/18	2.87	10,783,689	4,117			
01/31/18	2.87	10,787,806	4,118			
Data Summary	Flow (gpm)	Totalizer (gal)	Total Flow (gpd)	Effluent		Comments
				Total PCBs (mg/L)	pH (s.u.)	
Minimum	2.7	10,665,702	3,836	< 0.00040	7.09	
Average	2.8	10,726,621	4,072	< 0.00040	7.09	
Maximum	2.9	10,787,806	4,191	< 0.00040	7.09	

Notes:

gpm - gallons per minute
gal - gallons
gpd - gallons per day
PCBs - polychlorinated biphenyls
mg/L - milligrams per liter
< - analyte not detected
s.u. - standard units